

0580
0590
1115

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,738

DATE: 11/07/2001

TIME: 14:30:14

Input Set : A:\es.txt

Output Set: N:\CRF3\11072001\I965738.raw

3 <110> APPLICANT: O'Brien, Timothy
5 <120> TITLE OF INVENTION: Repeat Sequences of the CA125 Gene and Their Use for Diagnostic and

6 Therapeutic Interventions

8 <130> FILE REFERENCE: 40715-258841

C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/965,738

C--> 10 <141> CURRENT FILING DATE: 2001-09-27

10 <150> PRIOR APPLICATION NUMBER: US 60/284,175

11 <151> PRIOR FILING DATE: 2001-04-17

13 <160> NUMBER OF SEQ ID NOS: 306

15 <170> SOFTWARE: PatentIn version 3.0

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 13

19 <212> TYPE: PRT

20 <213> ORGANISM: Homo sapiens

22 <400> SEQUENCE: 1

24 Gln His Pro Gly Ser Arg Lys Phe Lys Thr Thr Glu Gly

25 1 5 10

27 <210> SEQ ID NO: 2

28 <211> LENGTH: 11

29 <212> TYPE: PRT

30 <213> ORGANISM: Homo sapiens

32 <400> SEQUENCE: 2

34 Phe Leu Thr Val Glu Arg Val Leu Gln Gly Leu

35 1 5 10

37 <210> SEQ ID NO: 3

38 <211> LENGTH: 8

39 <212> TYPE: PRT

40 <213> ORGANISM: Homo sapiens

42 <400> SEQUENCE: 3

44 Asp Thr Tyr Val Gly Pro Leu Tyr

45 1 5

47 <210> SEQ ID NO: 4

48 <211> LENGTH: 8

49 <212> TYPE: PRT

50 <213> ORGANISM: Homo sapiens

52 <400> SEQUENCE: 4

54 Asp Gly Ala Ala Asn Gly Val Asp

55 1 5

57 <210> SEQ ID NO: 5

58 <211> LENGTH: 240

59 <212> TYPE: DNA

60 <213> ORGANISM: Homo sapiens

62 <220> FEATURE:

63 <221> NAME/KEY: CDS

64 <222> LOCATION: (1)..(240)

66 <400> SEQUENCE: 5

67 cgt cga cct ggc tct aga aag ttt aac acc acg gag aga gtc ctt cag

48

ENTERED

P-5

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68 Arg Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln
69 1          5          10          15
71 ggt ctg ctc agg cct gtg ttc aag aac acc agt gtt ggc cct ctg tac      96
72 Gly Leu Leu Arg Pro Val Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
73          20          25          30
75 tct ggc tgc aga ctg acc ttg ctc agg ccc aag aag gat ggg gca gcc      144
76 Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Lys Lys Asp Gly Ala Ala
77          35          40          45
79 acc aaa gtg gat gcc atc tgc acc tac cgc cct gat ccc aaa agc cct      192
80 Thr Lys Val Asp Ala Ile Cys Thr Tyr Arg Pro Asp Pro Lys Ser Pro
81          50          55          60
83 gga ctg gac aga gag cag cta tac tgg gag ctg agc cag ggt gat gca      240
84 Gly Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Gly Asp Ala
85 65          70          75          80

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88 <210> SEQ ID NO: 6

89 <211> LENGTH: 80

90 <212> TYPE: PRT

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 6

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95 Arg Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln
96 1          5          10          15
99 Gly Leu Leu Arg Pro Val Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
100          20          25          30
103 Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Lys Lys Asp Gly Ala Ala
104          35          40          45
107 Thr Lys Val Asp Ala Ile Cys Thr Tyr Arg Pro Asp Pro Lys Ser Pro
108          50          55          60
111 Gly Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Gly Asp Ala
112 65          70          75          80

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115 <210> SEQ ID NO: 7

116 <211> LENGTH: 20

117 <212> TYPE: DNA

C--> 118 <213> ORGANISM: Artificial

120 <220> FEATURE:

121 <223> OTHER INFORMATION: Synthetic Primer

123 <400> SEQUENCE: 7

124 ggagagggtt ctgcagggtc

127 <210> SEQ ID NO: 8

128 <211> LENGTH: 6

129 <212> TYPE: PRT

C--> 130 <213> ORGANISM: Artificial

132 <220> FEATURE:

133 <223> OTHER INFORMATION: Synthetic Primer

135 <400> SEQUENCE: 8

137 Glu Arg Val Leu Gln Gly

138 1 5

140 <210> SEQ ID NO: 9

141 <211> LENGTH: 20

142 <212> TYPE: DNA

RAW SEQUENCE LISTING

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Input Set : A:\es.txt

Output Set: N:\CRF3\11072001\I965738.raw

C--> 143 <213> ORGANISM: Artificial

145 <220> FEATURE:

146 <223> OTHER INFORMATION: Synthetic Primer

148 <400> SEQUENCE: 9

149 gtgaatggta tcaggagagg

152 <210> SEQ ID NO: 10

153 <211> LENGTH: 6

154 <212> TYPE: PRT

20

C--> 155 <213> ORGANISM: Artificial

157 <220> FEATURE:

158 <223> OTHER INFORMATION: Synthetic Primer

160 <400> SEQUENCE: 10

162 Pro Leu Leu Ile Pro Phe

163 1 5

165 <210> SEQ ID NO: 11

166 <211> LENGTH: 131

167 <212> TYPE: PRT

168 <213> ORGANISM: Homo sapiens

170 <400> SEQUENCE: 11

172 Glu Arg Val Leu Gln Gly Leu Leu Arg Ser Leu Phe Lys Ser Thr Ser

173 1 5 10 15

175 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu

176 20 25 30

178 Lys Asp Gly Thr Ala Thr Gly Val Asp Ala Ile Cys Thr His His Pro

179 35 40 45

181 Asp Pro Lys Ser Pro Arg Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu

182 50 55 60

184 Ser Gln Leu Thr His Asn Ile Thr Glu Leu Gly Pro Tyr Ala Leu Asp

185 65 70 75 80

187 Asn Asp Ser Leu Phe Val Asn Gly Phe Thr His Arg Ser Ser Val Ser

188 85 90 95

190 Thr Thr Ser Thr Pro Gly Thr Pro Thr Val Tyr Leu Gly Ala Ser Lys

191 100 105 110

193 Thr Pro Ala Ser Ile Phe Gly Pro Ser Ala Ala Ser Pro Leu Leu Ile

194 115 120 125

196 Pro Phe Thr

197 130

199 <210> SEQ ID NO: 12

200 <211> LENGTH: 130

201 <212> TYPE: PRT

202 <213> ORGANISM: Homo sapiens

204 <400> SEQUENCE: 12

206 Glu Arg Val Leu Gln Gly Leu Leu Met Pro Leu Phe Lys Asn Thr Ser

207 1 5 10 15

209 Val Ser Ser Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu

210 20 25 30

212 Lys Asp Gly Ala Ala Thr Arg Ala Asp Ala Val Cys Thr His Arg Pro

213 35 40 45

215 Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Lys Leu

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216      50      55      60
218 Ser Gln Leu Thr His Gly Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp
219 65      70      75      80
221 Arg His Ser Leu Tyr Val Asn Gly Phe Thr His Gln Ser Ser Met Thr
222      85      90      95
224 Thr Thr Arg Thr Pro Asp Thr Ser Thr Met His Leu Ala Thr Ser Arg
225      100      105      110
227 Thr Pro Ala Ser Leu Ser Gly Pro Thr Thr Ala Ser Pro Leu Leu Ile
228      115      120      125
230 Pro Phe
231      130
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 132
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 13
240 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Ile Phe Lys Asn Thr Ser
241 1      5      10      15
243 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Ser Leu Arg Ser Glu
244      20      25      30
246 Lys Asp Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Ile His Arg Leu
247      35      40      45
249 Asp Pro Lys Ser Pro Gly Leu Asn Arg Glu Gln Leu Tyr Trp Glu Leu
250      50      55      60
252 Ser Lys Leu Thr Asn Asp Ile Glu Glu Leu Gly Pro Tyr Thr Leu Asp
253 65      70      75      80
255 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Gln Ser Ser Val Ser
256      85      90      95
258 Thr Thr Ser Thr Pro Gly Thr Ser Thr Val Asp Leu Arg Thr Ser Gly
259      100      105      110
261 Thr Pro Ser Ser Leu Ser Ser Pro Thr Ile Met Ala Ala Gly Pro Leu
262      115      120      125
264 Leu Ile Pro Phe
265      130
267 <210> SEQ ID NO: 14
268 <211> LENGTH: 130
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 14
274 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Met Phe Lys Asn Thr Ser
275 1      5      10      15
277 Val Gly Leu Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
278      20      25      30
280 Lys Asn Gly Ala Ala Thr Gly Met Asp Ala Ile Cys Ser His Arg Leu
281      35      40      45
283 Asp Pro Lys Ser Pro Gly Leu Asn Arg Glu Gln Leu Tyr Trp Glu Leu
284      50      55      60
286 Ser Gln Leu Thr His Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp
287 65      70      75      80

```

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Input Set : A:\es.txt

Output Set: N:\CRF3\11072001\I965738.raw

```

289 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Val Ala
290           85                      90                      95
292 Pro Thr Ser Thr Pro Gly Thr Ser Thr Val Asp Leu Gly Thr Ser Gly
293           100                      105                      110
295 Thr Pro Ser Ser Leu Pro Ser Pro Thr Thr Ala Val Pro Leu Leu Ile
296           115                      120                      125
298 Pro Phe
299       130
301 <210> SEQ ID NO: 15
302 <211> LENGTH: 130
303 <212> TYPE: PRT
304 <213> ORGANISM: Homo sapiens
306 <400> SEQUENCE: 15
308 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Leu Phe Lys Asn Ser Ser
309 1           5                      10                      15
311 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Ile Ser Leu Arg Ser Glu
312           20                      25                      30
314 Lys Asp Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Thr His His Leu
315           35                      40                      45
317 Asn Pro Gln Ser Pro Gly Leu Asp Arg Glu Gln Leu Tyr Trp Gln Leu
318           50                      55                      60
320 Ser Gln Met Thr Asn Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp
321 65           70                      75                      80
323 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Gly Leu
324           85                      90                      95
326 Thr Thr Ser Thr Pro Trp Thr Ser Thr Val Asp Leu Gly Thr Ser Gly
327           100                      105                      110
329 Thr Pro Ser Pro Val Pro Ser Pro Thr Thr Ala Gly Pro Phe Leu Ile
330           115                      120                      125
332 Pro Phe
333       130
335 <210> SEQ ID NO: 16
336 <211> LENGTH: 130
337 <212> TYPE: PRT
338 <213> ORGANISM: Homo sapiens
340 <400> SEQUENCE: 16
342 Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Leu Phe Lys Ser Thr Ser
343 1           5                      10                      15
345 Ala Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
346           20                      25                      30
348 Lys His Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Thr Leu Arg Leu
349           35                      40                      45
351 Asp Pro Thr Gly Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu Leu
352           50                      55                      60
354 Ser Gln Leu Thr Asn Ser Val Thr Glu Leu Gly Pro Tyr Thr Leu Asp
355 65           70                      75                      80
357 Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Val Pro
358           85                      90                      95
360 Thr Thr Ser Ile Pro Gly Thr Ser Ala Val His Leu Glu Thr Ser Gly

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Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,738

DATE: 11/07/2001

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Input Set : A:\es.txt

Output Set: N:\CRF3\11072001\I965738.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:118 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:130 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:155 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:2301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:3529 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51
L:3541 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52
L:3553 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53
L:3565 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:54
L:3577 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:55
L:3589 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:56
L:3601 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:57
L:3613 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:58
L:3625 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:59
L:3637 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:60
L:3649 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:61
L:3661 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:62
L:3673 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:63
L:3685 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:64
L:3697 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:65
L:3709 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:66
L:3919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:3922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:3925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:5937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:6079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:6081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:6131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111

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Input Set : A:\es.txt

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L:6174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:6197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:6220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:6278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
L:6301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
L:6382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:15011 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:301
L:15023 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:302
L:15035 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:303
L:15047 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:304
L:15059 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:305
L:15071 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:306